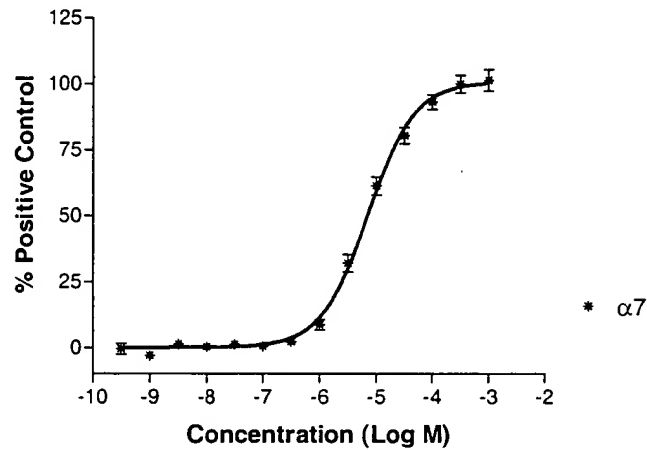


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

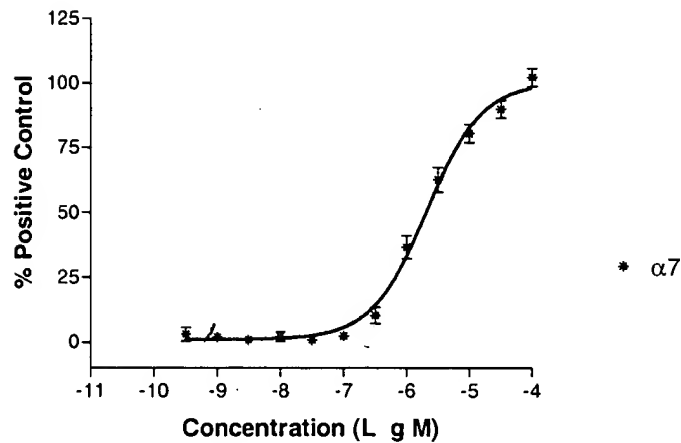
Agonist-Induce Increases in $[Ca^{2+}]_i$ for A7 Stable Cell Line

(Expressing the Nicotinic Alpha 7 Receptor in GH₄C₁ Cells)

Acetylcholine

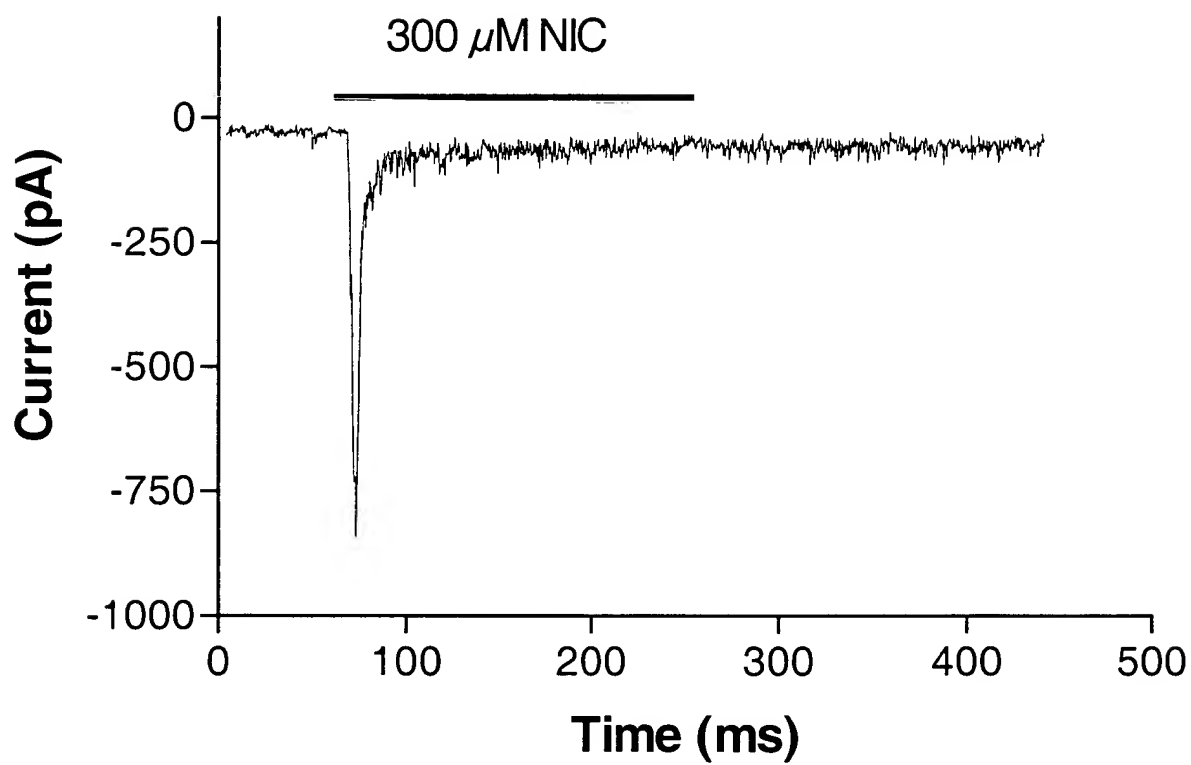


Nicotine



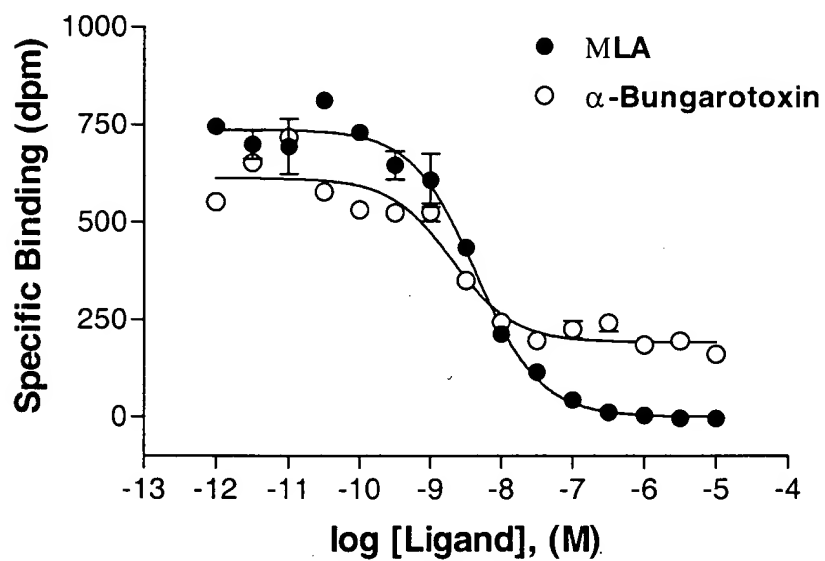
4

G1-9-15-8 (A7) Cell



5

[³H]-Methyllycaconitine Binding to Membranes Prepared from $\alpha 7$ expressed in GH4C1 Whole Cells



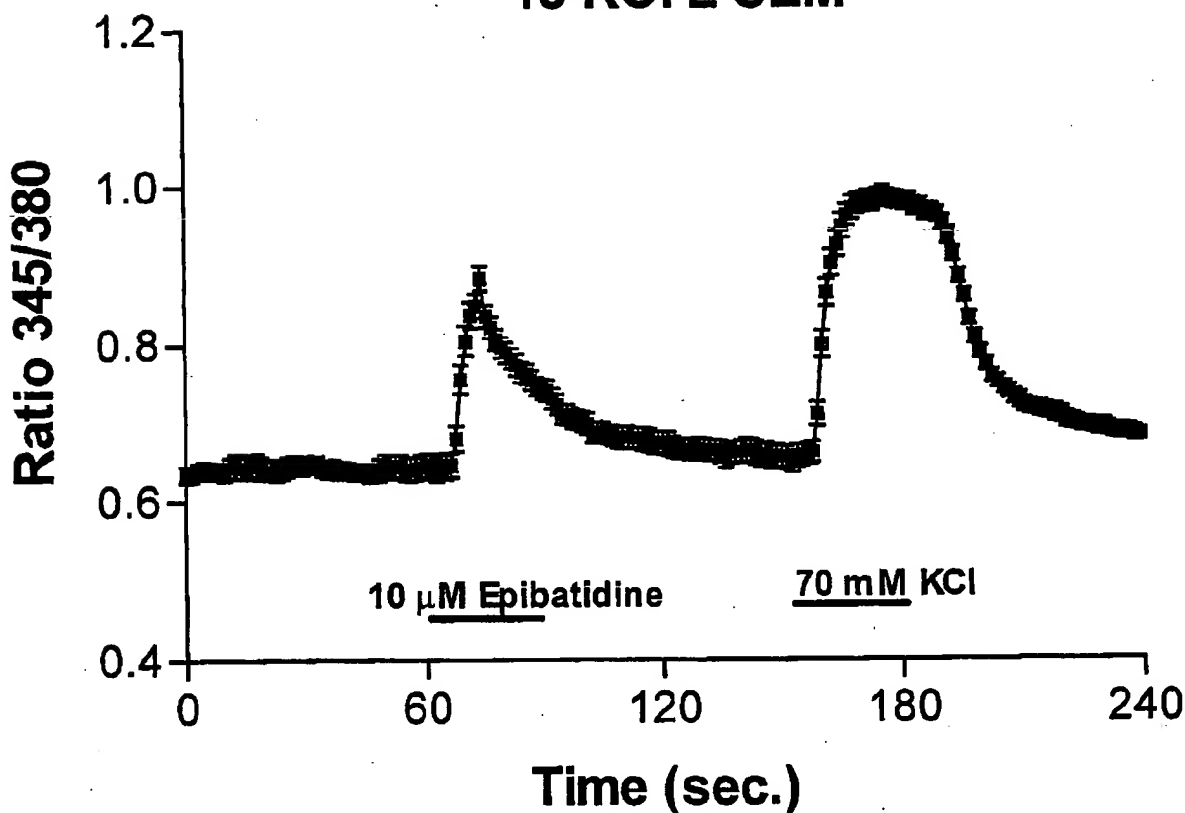
	MLA	α -Bungarotoxin
BOTTOM	0.3228	191.7
TOP	737.1	612.3
LOGEC50	-8.353	-8.689
HILLSLOPE	-0.9527	-0.9856
EC50	4.4320e-009	2.0470e-009

(4)

6

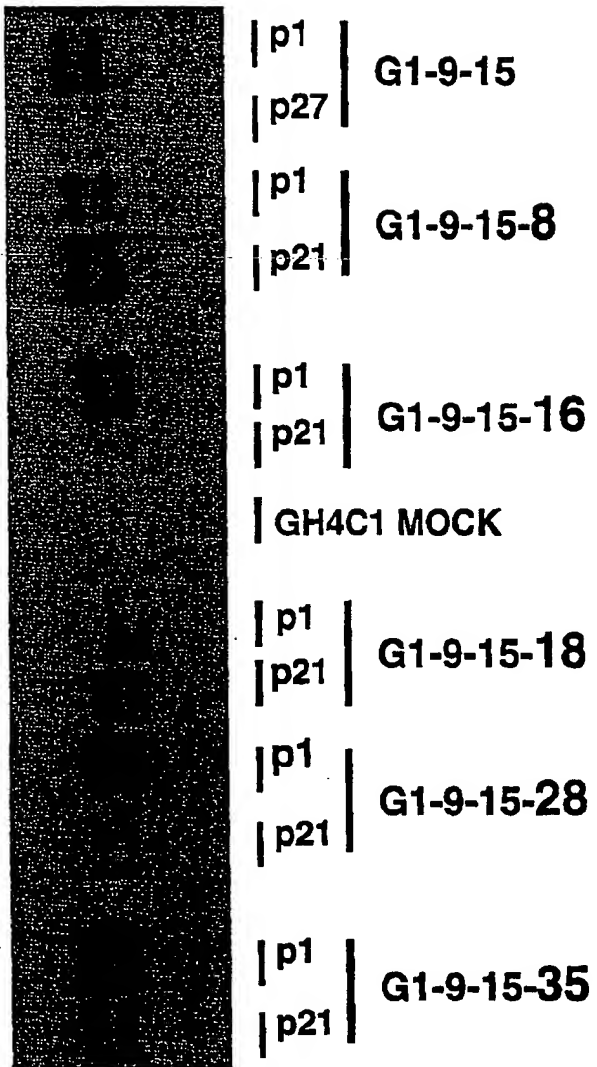
Single-Cell Imaging Data Demonstrates the Homogeneous Response of Stable Cell Line A7 to Epibatidine

α_7 Subclone G1-9-15-8
15 ROI \pm SEM



Cells were superfused with HBS prior to treatment periods as indicated on the graph. Values are means \pm SEM from one experiment. Cells were cultured at 37°C.

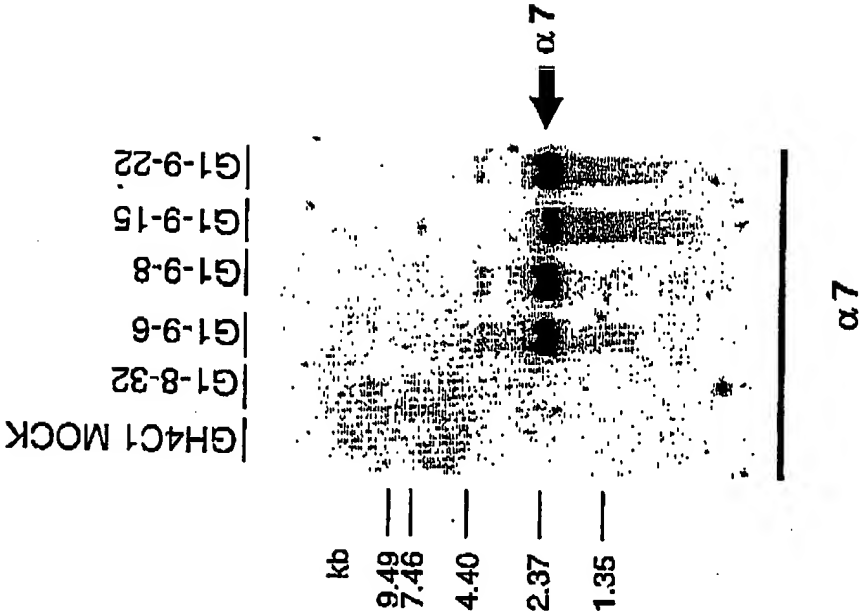
G1-9-15 Subclones Stably Express $\alpha 7$ Protein



↑
α7

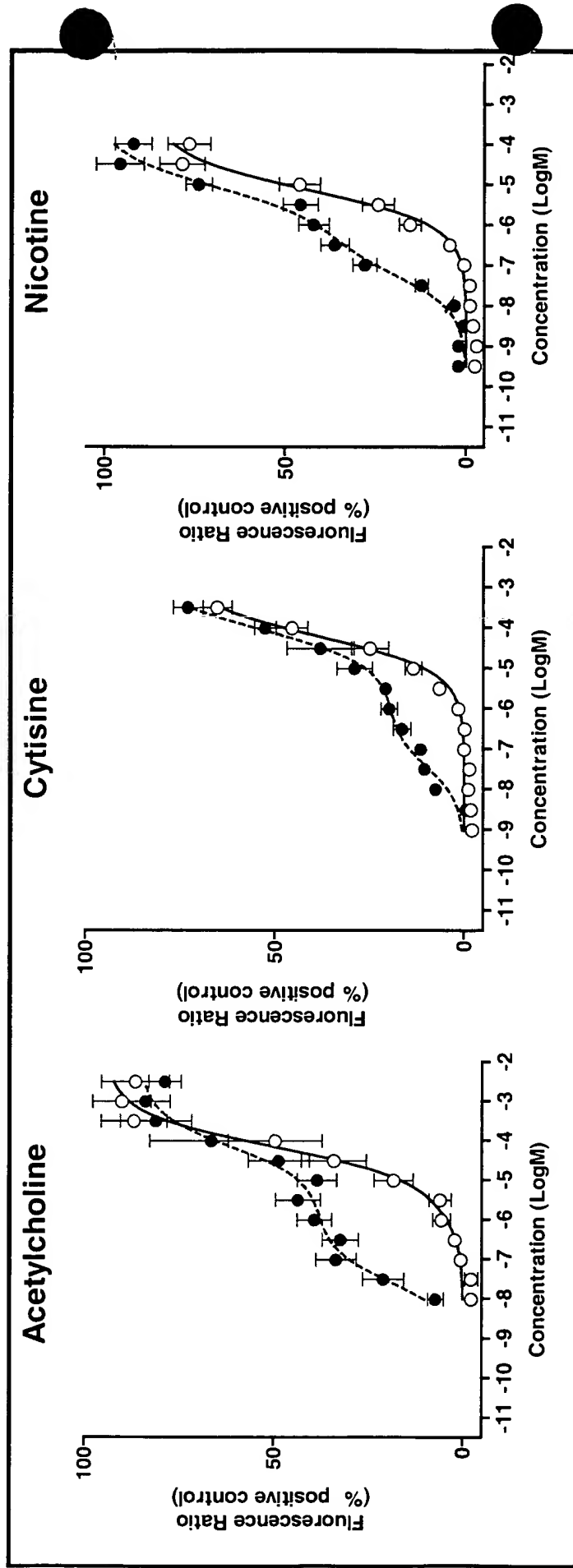
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9a CANNED, # 18

Agonist Pharmacology of A3B2A5 Cells Is Distinct from A3B2 ($\alpha 3\beta 2$) Cells



○ A3B2

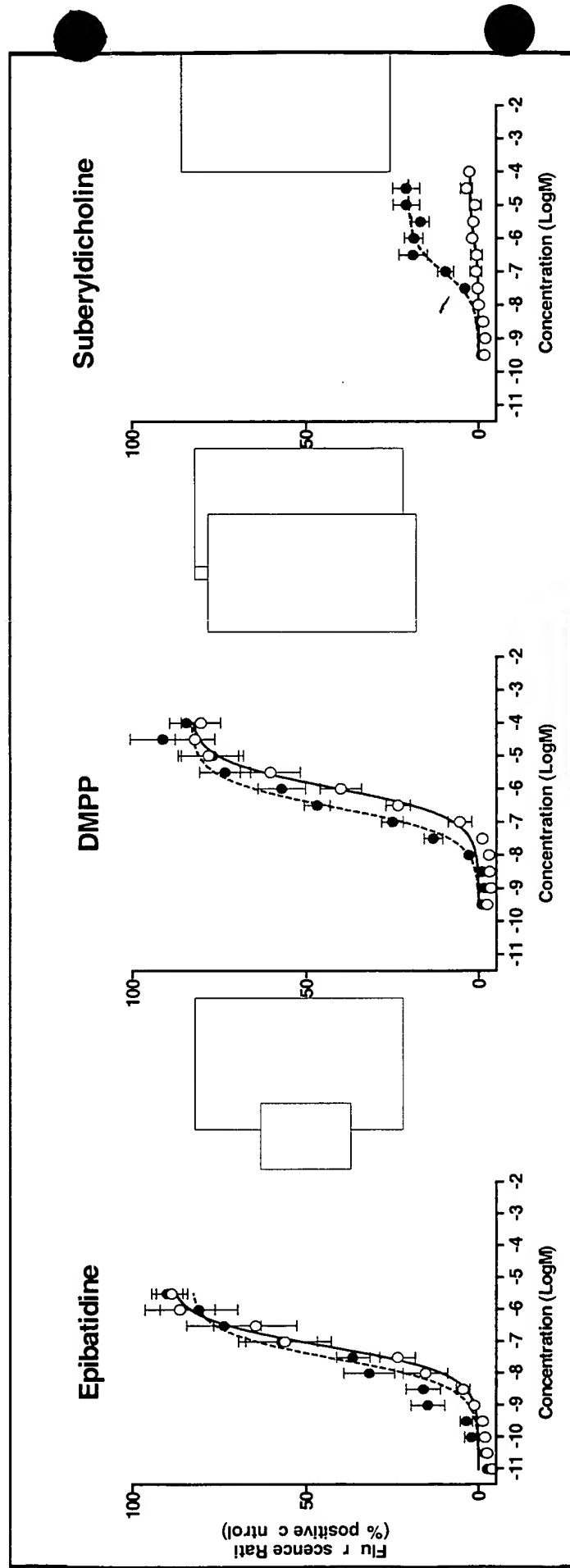
● A3B2A

5

* Positive control Agonist is 30 μ M DMPP

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Agonist Pharmacology of A3B2A5 Cells Is Distinct From A3B2 ($\alpha 3\beta 2$) Cells

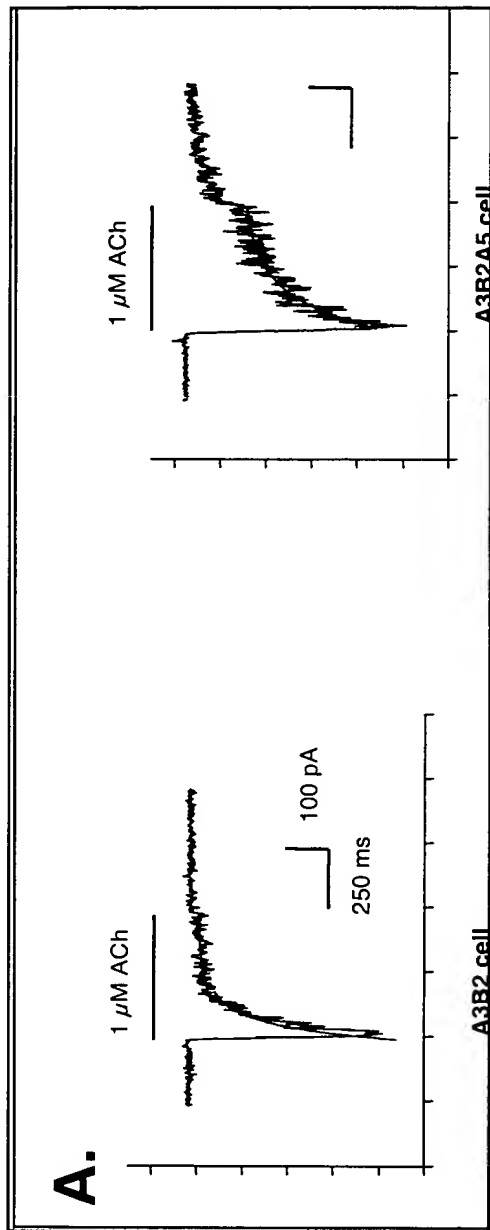


○ A3B2A5
● A3B2

5

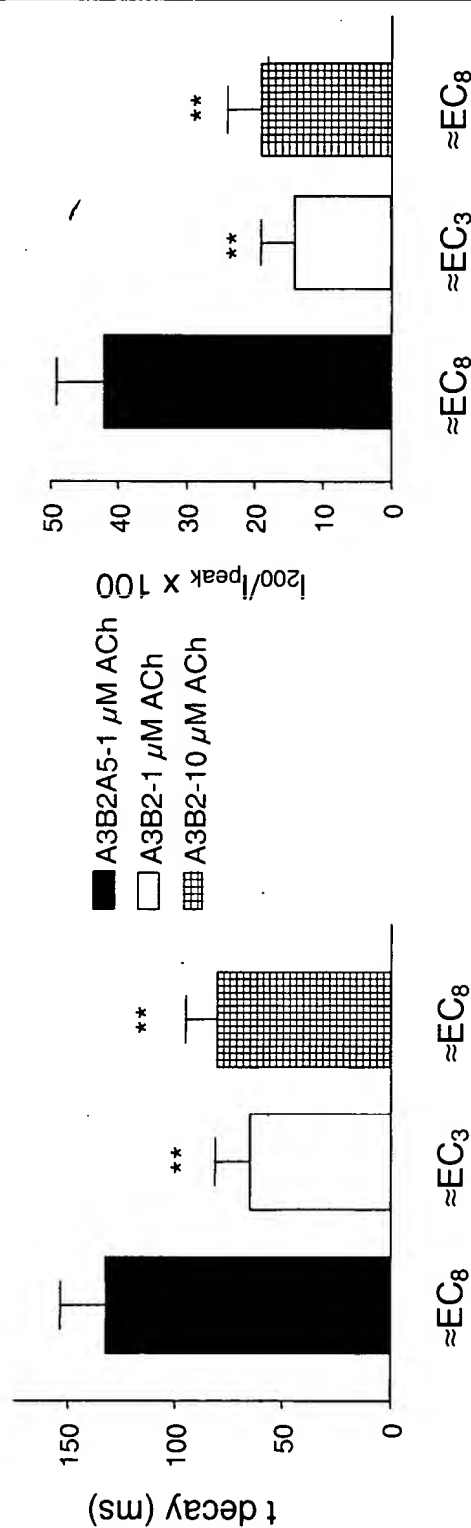
* Positive Control Agonist is 30 μ M DMPP

The Kinetics of Decay of Currents Induced by Low Doses of Acetylcholine Are Slower in A3B2A5 than in A3B2 Cells

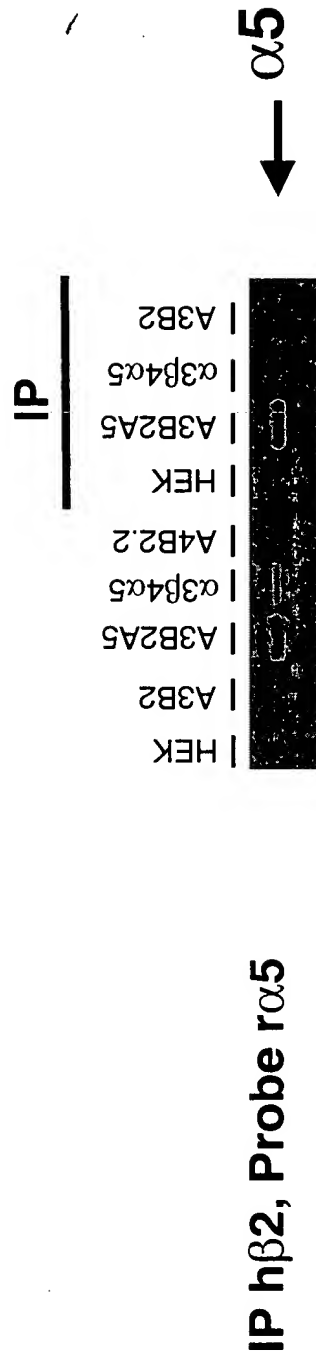
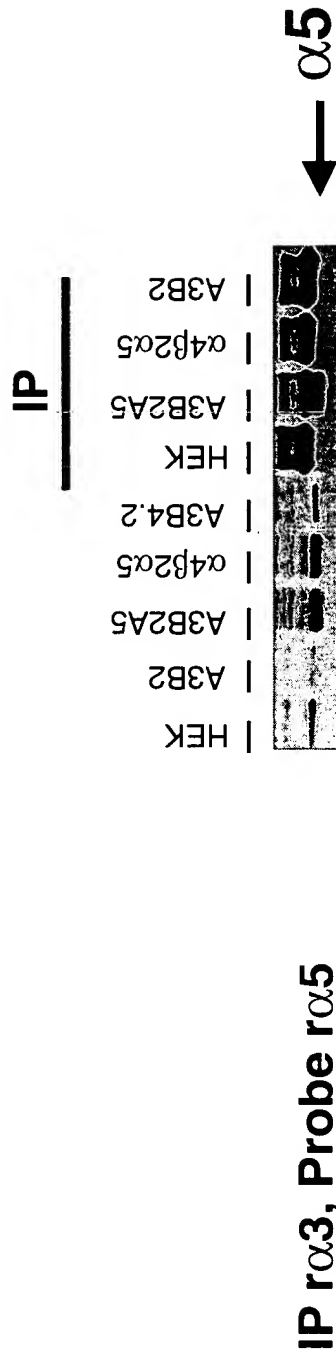


B. Time constant of decay of currents induced by ACh

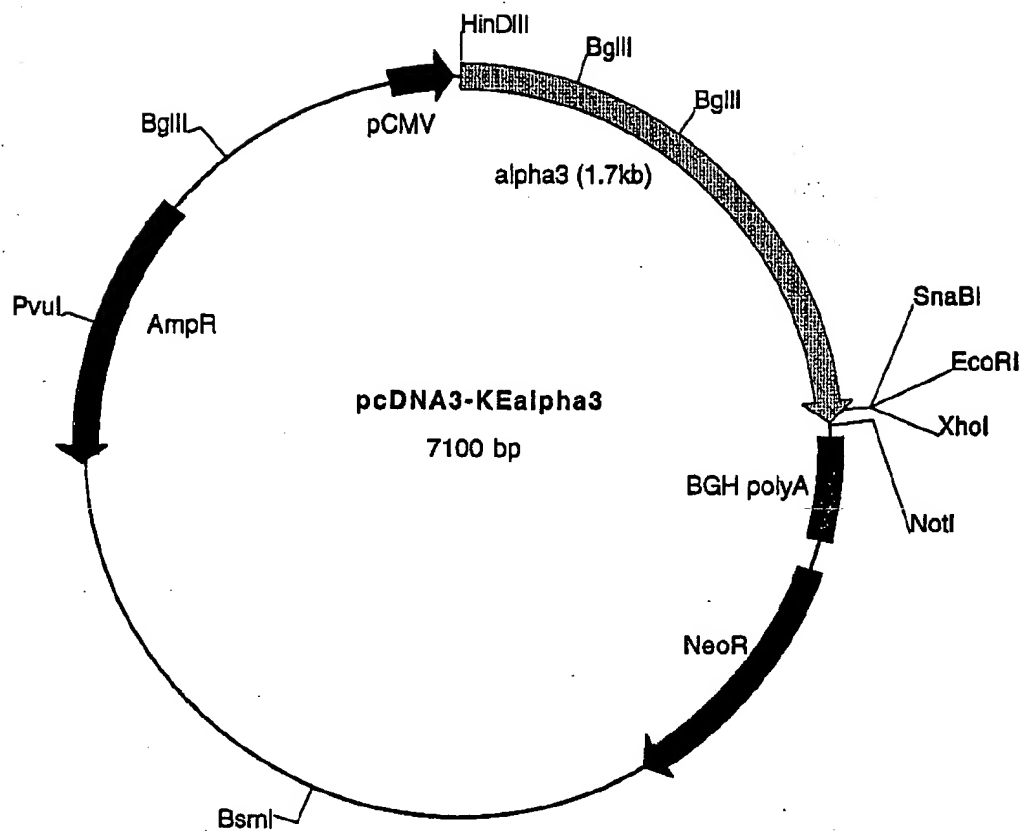
Residual current measured 200 ms after current onset



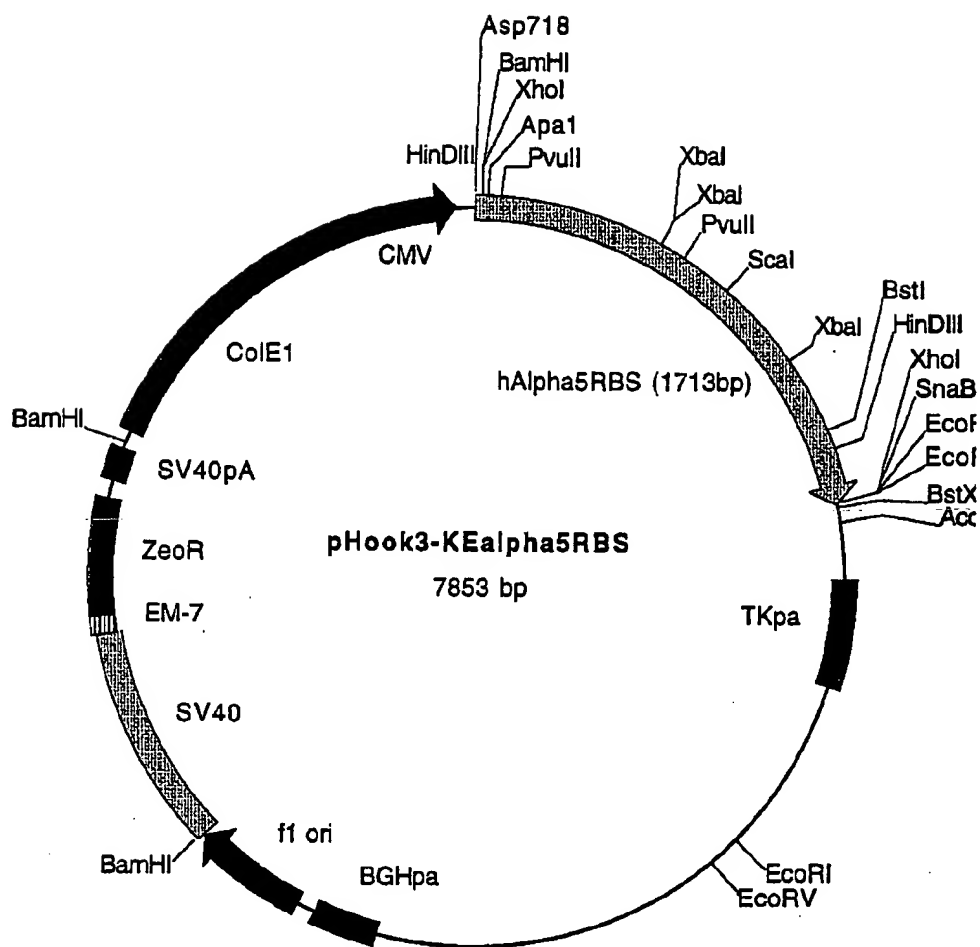
$\alpha 5$ Co-Assembles with $\alpha 3$ and $\beta 2$ in Cell Line A3B2A5



Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



13



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